



Performance Data Sheet

VSC5534ENA

General Information

| | | | |
|-----------------------|--------------------------|---------------------------------|-------------|
| Model | VSC5534ENA | Refrigerant | R-22 |
| Test Condition | ARI | Performance Test Voltage | 230V ~ 60HZ |
| Return Gas | 18.3°C (65°F) RETURN GAS | Motor Type | PSC |

Performance Information

| Evap Temp (°F) | Condensing Temperature (°F) | | | | | | | |
|----------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| -15 | Btu/h | 13200 | 12400 | | | | | |
| | Watts | 1650 | 1930 | | | | | |
| | Amps | 7.88 | 8.46 | | | | | |
| | Lb/h | 169 | 166 | | | | | |
| -10 | Btu/h | 14100 | 13400 | 12400 | | | | |
| | Watts | 1650 | 1910 | 2240 | | | | |
| | Amps | 8.00 | 8.55 | 9.38 | | | | |
| | Lb/h | 181 | 178 | 172 | | | | |
| -5 | Btu/h | 15400 | 14600 | 13600 | 12400 | | | |
| | Watts | 1650 | 1900 | 2200 | 2590 | | | |
| | Amps | 8.10 | 8.62 | 9.42 | 10.5 | | | |
| | Lb/h | 196 | 194 | 188 | 178 | | | |
| 0 | Btu/h | 17100 | 16200 | 15200 | 14000 | 12400 | | |
| | Watts | 1650 | 1890 | 2180 | 2540 | 2990 | | |
| | Amps | 8.18 | 8.68 | 9.46 | 10.5 | 11.9 | | |
| | Lb/h | 216 | 213 | 208 | 200 | 186 | | |
| 5 | Btu/h | 19000 | 18100 | 17000 | 15800 | 14200 | | |
| | Watts | 1650 | 1880 | 2160 | 2500 | 2920 | | |
| | Amps | 8.25 | 8.72 | 9.48 | 10.5 | 11.9 | | |
| | Lb/h | 239 | 237 | 232 | 224 | 212 | | |
| 10 | Btu/h | 21300 | 20300 | 19100 | 17900 | 16300 | 14400 | 12100 |
| | Watts | 1650 | 1880 | 2140 | 2470 | 2870 | 3360 | 3970 |
| | Amps | 8.30 | 8.76 | 9.50 | 10.5 | 11.9 | 13.5 | 15.5 |
| | Lb/h | 266 | 263 | 259 | 252 | 241 | 225 | 201 |
| 15 | Btu/h | 23800 | 22700 | 21500 | 20200 | 18600 | 16800 | 14500 |
| | Watts | 1640 | 1870 | 2130 | 2440 | 2830 | 3290 | 3870 |
| | Amps | 8.33 | 8.78 | 9.51 | 10.5 | 11.8 | 13.5 | 15.4 |
| | Lb/h | 296 | 293 | 289 | 283 | 273 | 258 | 237 |
| 20 | Btu/h | 26700 | 25400 | 24100 | 22700 | 21100 | 19300 | 17000 |
| | Watts | 1630 | 1860 | 2120 | 2430 | 2790 | 3240 | 3780 |
| | Amps | 8.35 | 8.80 | 9.51 | 10.5 | 11.8 | 13.4 | 15.4 |
| | Lb/h | 330 | 326 | 321 | 316 | 307 | 294 | 275 |

| | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| 25 | Btu/h | 29800 | 28400 | 27000 | 25500 | 23800 | 22000 | 19700 |
| | Watts | 1610 | 1850 | 2110 | 2410 | 2770 | 3190 | 3710 |
| | Amps | 8.36 | 8.80 | 9.52 | 10.5 | 11.8 | 13.4 | 15.3 |
| | Lb/h | 366 | 361 | 357 | 351 | 343 | 332 | 315 |
| 30 | Btu/h | 33200 | 31600 | 30000 | 28400 | 26700 | 24800 | 22600 |
| | Watts | 1580 | 1840 | 2100 | 2400 | 2750 | 3160 | 3660 |
| | Amps | 8.36 | 8.80 | 9.51 | 10.5 | 11.8 | 13.4 | 15.3 |
| | Lb/h | 406 | 400 | 395 | 389 | 382 | 372 | 356 |
| 35 | Btu/h | 36900 | 35000 | 33300 | 31600 | 29700 | 27800 | 25500 |
| | Watts | 1540 | 1810 | 2090 | 2390 | 2730 | 3130 | 3610 |
| | Amps | 8.34 | 8.79 | 9.51 | 10.5 | 11.8 | 13.4 | 15.3 |
| | Lb/h | 448 | 440 | 435 | 429 | 423 | 413 | 399 |
| 40 | Btu/h | 40800 | 38700 | 36700 | 34900 | 32900 | 30900 | 28600 |
| | Watts | 1490 | 1780 | 2070 | 2380 | 2720 | 3110 | 3580 |
| | Amps | 8.32 | 8.78 | 9.50 | 10.5 | 11.8 | 13.4 | 15.3 |
| | Lb/h | 492 | 484 | 477 | 471 | 465 | 456 | 444 |
| 45 | Btu/h | 44900 | 42600 | 40400 | 38300 | 36300 | 34100 | 31700 |
| | Watts | 1430 | 1750 | 2050 | 2370 | 2710 | 3100 | 3560 |
| | Amps | 8.29 | 8.77 | 9.50 | 10.5 | 11.8 | 13.4 | 15.3 |
| | Lb/h | 539 | 529 | 521 | 515 | 509 | 501 | 490 |
| 50 | Btu/h | 49200 | 46600 | 44200 | 42000 | 39700 | 37400 | 35000 |
| | Watts | 1350 | 1700 | 2020 | 2350 | 2700 | 3090 | 3540 |
| | Amps | 8.26 | 8.75 | 9.50 | 10.5 | 11.8 | 13.4 | 15.3 |
| | Lb/h | 589 | 576 | 568 | 561 | 554 | 547 | 537 |
| 55 | Btu/h | 53800 | 50900 | 48200 | 45700 | 43300 | 40900 | 38300 |
| | Watts | 1260 | 1630 | 1980 | 2330 | 2690 | 3090 | 3530 |
| | Amps | 8.22 | 8.73 | 9.50 | 10.5 | 11.8 | 13.4 | 15.4 |
| | Lb/h | 640 | 626 | 615 | 608 | 601 | 594 | 584 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|--------------|---------------|---------------|---------------|---------------|
| C1 | 3.005974E+04 | -5.378235E+02 | 1.289291E+01 | 3.286071E+02 |
| C2 | 7.339158E+02 | -3.625903E+01 | 2.887176E-02 | 8.442505E+00 |
| C3 | -3.461501E+02 | 5.286035E+01 | -1.402321E-01 | -4.204241E+00 |
| C4 | 9.918655E+00 | -6.216478E-01 | -9.811803E-04 | 1.053149E-01 |
| C5 | -7.639787E+00 | 1.002395E+00 | 2.537275E-05 | -9.789030E-02 |
| C6 | 3.571653E+00 | -5.638455E-01 | 8.510633E-04 | 5.457770E-02 |
| C7 | -1.521705E-02 | -1.911240E-03 | 1.635918E-06 | -2.278450E-04 |
| C8 | -4.354292E-02 | 7.424226E-03 | 7.968017E-06 | -3.816163E-04 |
| C9 | 3.704537E-02 | -6.837151E-03 | -2.544043E-06 | 5.738991E-04 |
| C10 | -1.595857E-02 | 3.068341E-03 | 2.075366E-06 | -2.454669E-04 |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature